

## **Balloon dilation apparatus with a cutting tool on a primarily single-lumen multi-purpose catheter**

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### **Abstract of DE3402573**

The double-lumen balloon-tipped catheter according to Grünzig is at present regarded as being the most effective, and is frequently also used for the important, percutaneous, transluminal angioplasty, preferably on moderately arteriosclerotically constricted coronary arteries. In contrast, according to patent claims 1-18 an improvement consists in the use of a primarily single-lumen multi-purpose catheter which also has a balloon or balloons; the otherwise standard balloon is expediently divided in three parts and also has a cutting tool on the top of the single balloon and is set lengthwise like the latter, and at the same time is arranged via slits which are also set lengthwise on the catheter which has relatively thick walls and is incompressible. The single lumen of this multi-purpose catheter was already proposed in P 3326648.4, Dr. Schubert. The front nozzle can also be closed with likewise long accessory instruments, such as cannulas. The present multi-purpose catheter can also become the guiding catheter by introduction of a pre-shaped spiral which is connected to a torsion-proof retaining wire at the proximal end also for pushing on. The frontal nozzle body may also comprise a plurality of nozzles, so that further guide tracks for various functions can at the same time be used in the multi-purpose catheter. A special catheter having a balloon and a cutting tool for the elimination of urethral structures is presented.

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